Algo Satellite Speaker Technology

An Introduction to Algo's new Satellite Speaker Technology

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Algo Introduction

- Manufacturer of IP Endpoints: Speakers, Intercoms, Visual Alerters

- Endpoints certified with leading UC, Collaboration, and Emergency Notification Platforms

- Long history in telephony and hardware development. Founded 1968. Products manufactured in Vancouver, Canada

Algo Solutions Overview – IP Endpoint Suite

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IP Voice Paging
- High intelligibility voice paging and notification
- Full IP endpoint solutions

IP Audio Alerting
- Effective communication for all alerting requirements
- Scalable via multicast

IP Intercoms
- Thoughtful form factors for aesthetics and security
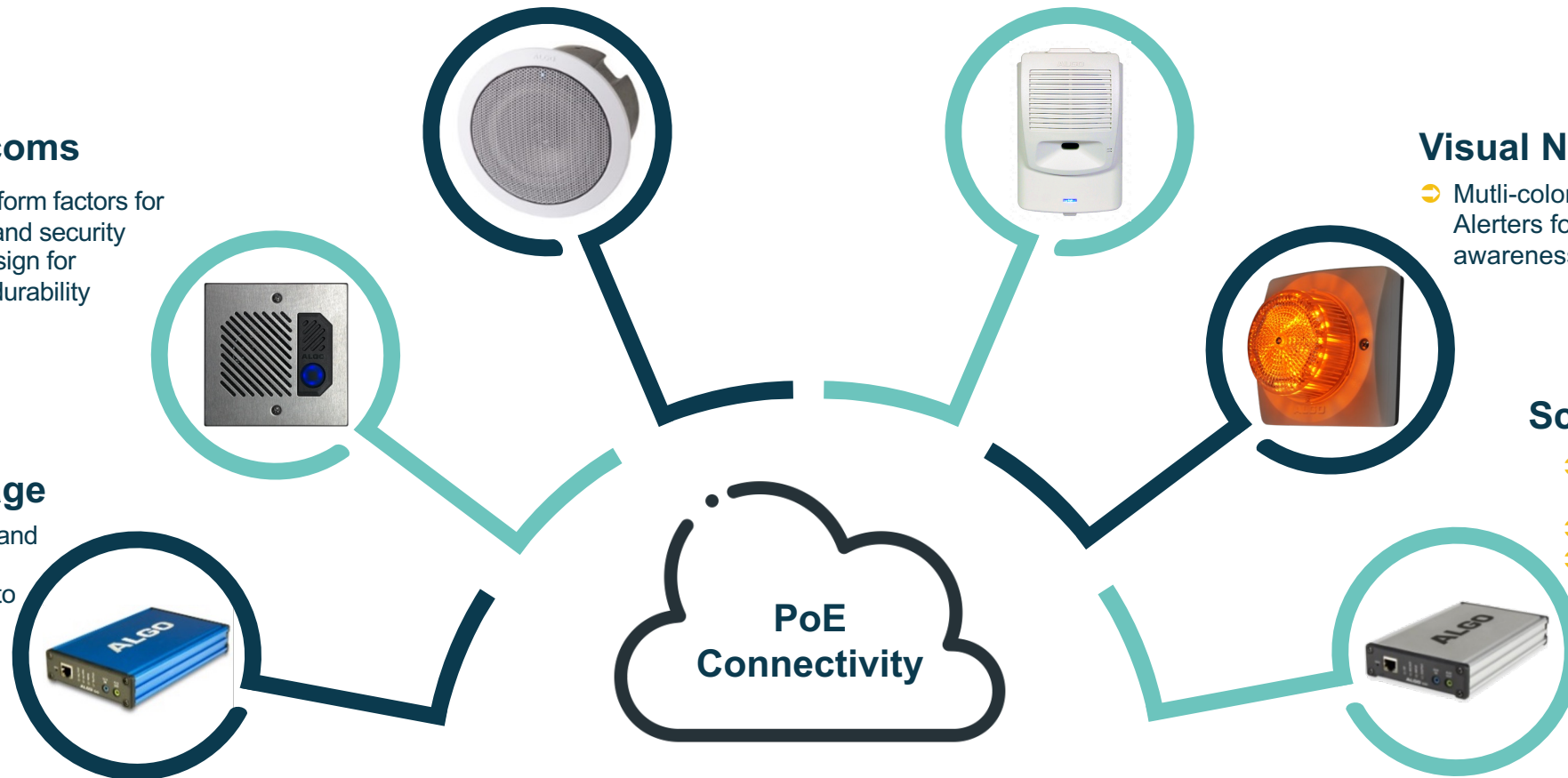- Rugged design for prolonged durability

Visual Notification
- Mutli-colored visual Alerters for visual awareness & notification

Monitor & Manage
- Active management and supervision of all IP endpoints with easy to utilize endpoint

Scheduling & Music
- Integrate legacy paging environments
- Scheduling functionality
- Background music

PoE Connectivity

Making IP Paging More Cost Effective
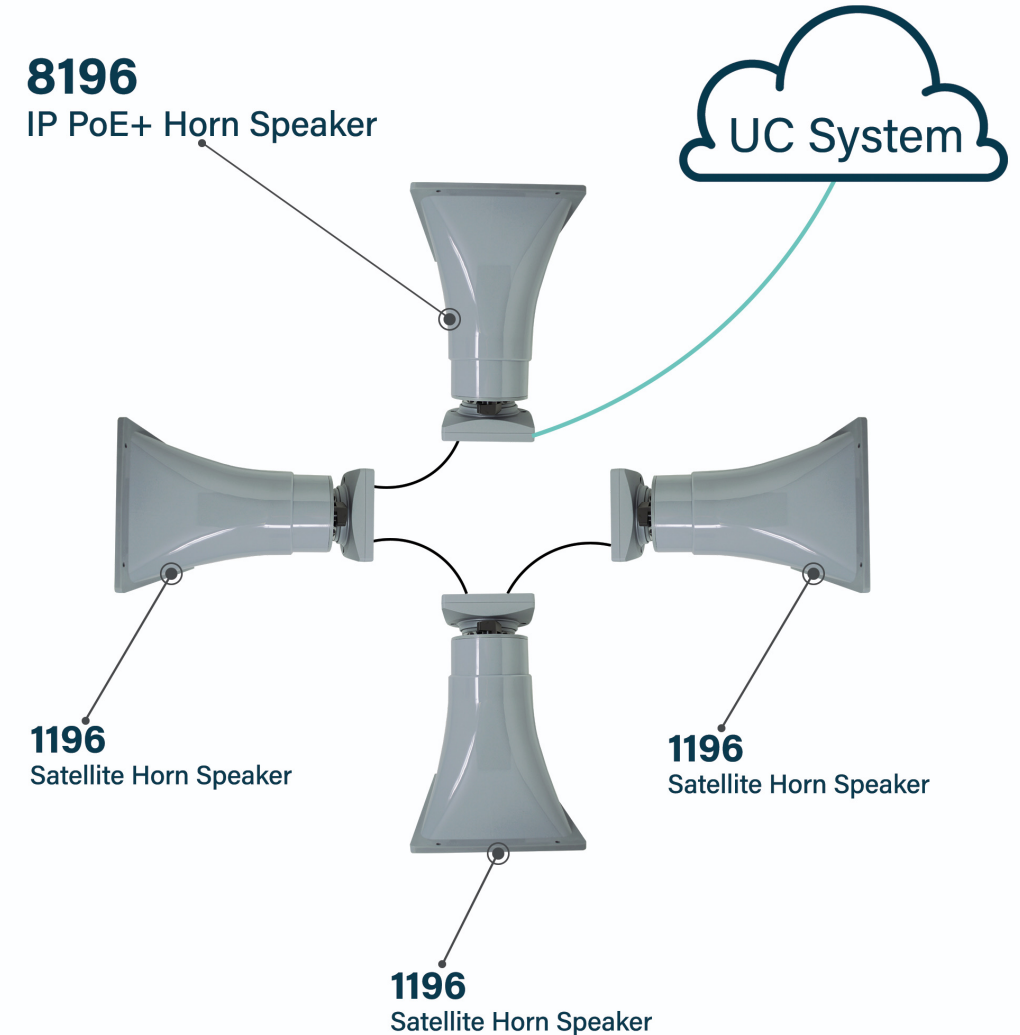## With Algo Satellite Speakers

With the Algo Satellite Speaker system
you can achieve the benefits of IP
Paging with reduced costs

Introducing the Algo 8196/1196 Satellite Speaker System

- **Algo 8196**: Single speaker up to 16W

- **Algo 1196**: Add up to 3 supervised satellite speakers

- All speakers fully supervisable

- IP speakers and satellite speaker look and sound identical

- Easy daisy chained connection via patch cable

Significant Cost Savings
Fewer data ports and drops to run

8196
IP PoE+ Horn Speaker

UC System

1196
Satellite Horn Speaker

1196
Satellite Horn Speaker

1196
Satellite Horn Speaker
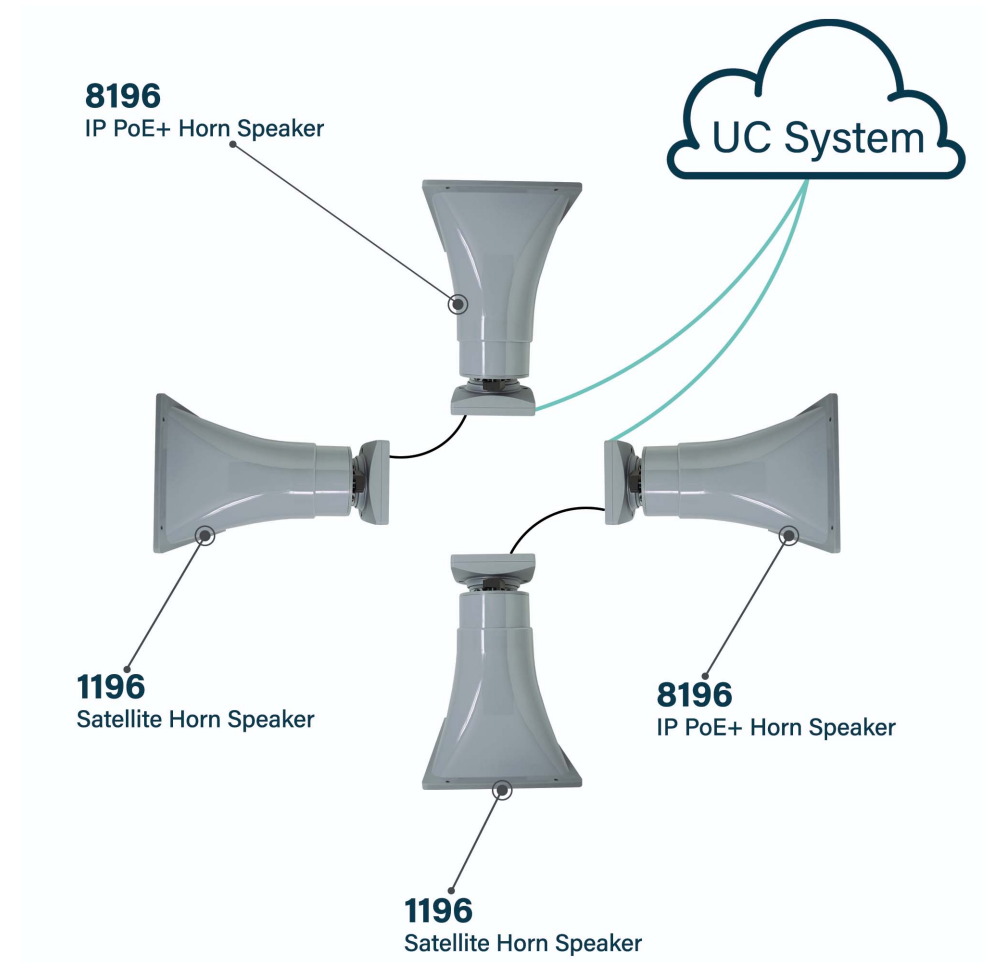
8196 IP PoE+ Horn Speaker Overview

- The 8196 IP Horn Speaker is a SIP compliant and multicast capable PoE+ network audio device for live voice paging, alerting, announcements and emergency notification.

- **Satellite Extension:** 8196 can provide significant savings when combined with one, two or three 1196 satellite speakers

- **Supervisable**: The 8196 can supervise all attached satellite speakers

- **Core Algo IP Speaker Functionality Maintained:**

  - Remote manageable and fully supervisable

  - Wideband audio for high intelligibility and background music

  - IP multicast scalable

  - Ambient noise adaptive and talkback capable
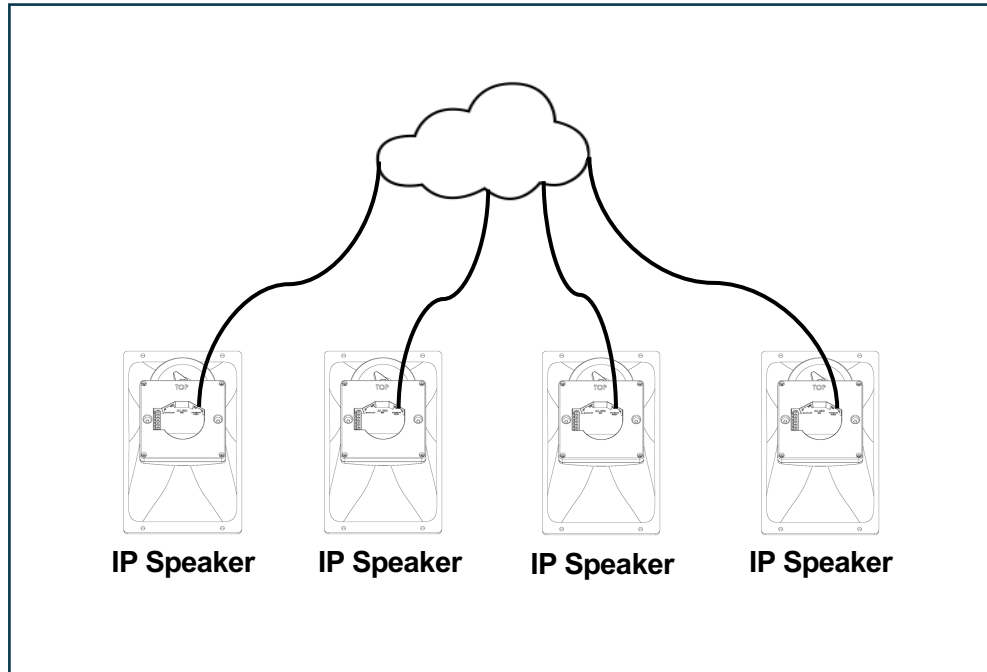
  - Secure SIP capable (TLS, SRTP)

8196 IP PoE+ Horn Speaker

Benefits of Algo Satellite Speaker System

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- Lower project costs

  (reduction in materials and labor)

- Easy installation via daisy chain connection

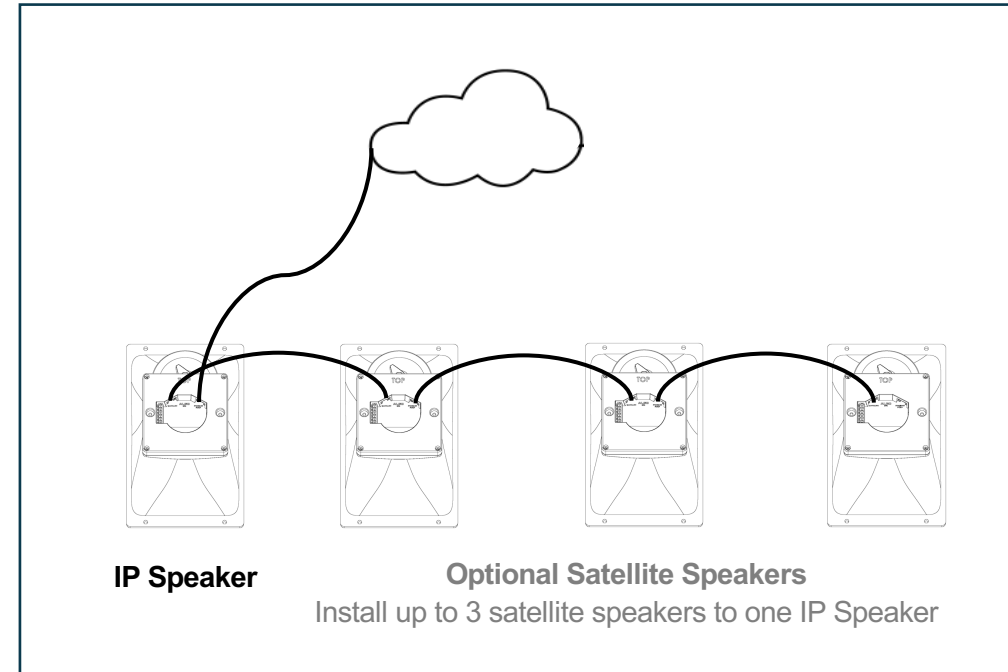- Flexible deployment to meet requirements of project

8196
IP PoE+ Horn Speaker

UC System

1196
Satellite Horn Speaker

8196
IP PoE+ Horn Speaker

1196
Satellite Horn Speaker

Homerun IP Speaker Solution vs Algo Satellite Speaker

Deployment of IP Speakers

IP Speaker **IP Speaker** **IP Speaker** **IP Speaker**

- Typically each IP speaker requires a network drop

Deployment of Algo Satellite Speakers

IP Speaker

Optional Satellite Speakers
Install up to 3 satellite speakers to one IP Speaker
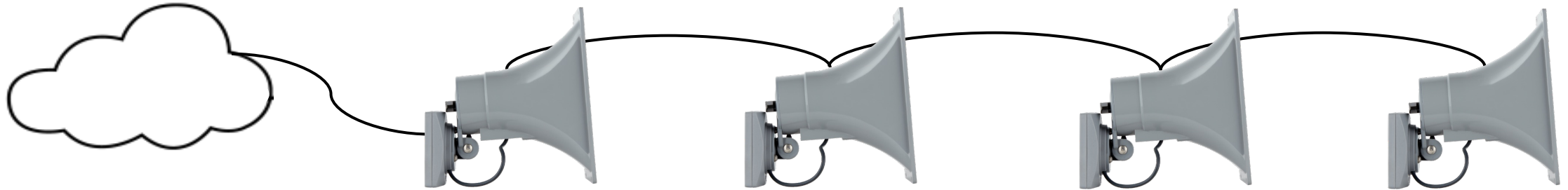
- Only IP speakers require a network drop.
- Satellite speakers connect to the IP speaker using standard patch cable – up to 50ft recommended

Power & Cost Varies with Satellites Added

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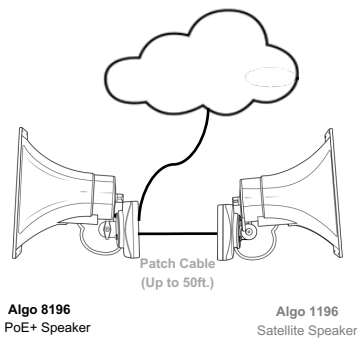|	**Algo 8196** IP PoE+ Horn Speaker	**Algo 1196** Satellite Horn Speaker	**Algo 1196** Satellite Horn Speaker	**Algo 1196** Satellite Horn Speaker
Satellites Attached	0	1	2	3
Speaker Configuration	1 x 8196	1 x 8196 1 x 1196	1 x 8196 2 x 1196	1 x 8196 3 x 1196
Network Drops Required	1	1	1	1
Per Speaker				
Power (PoE+)	16W	8W	5.3W	4W
Max Output (dBA)	119	116	114	113

Options of Configuring Satellite Speakers

- Up to three (3) 1196 Satellite Ceiling Speakers may be connected to one (1) 8196 IP PoE+ Ceiling Speaker
- Each satellite speaker can be connected with a using standard patch cable – up to 50ft recommended
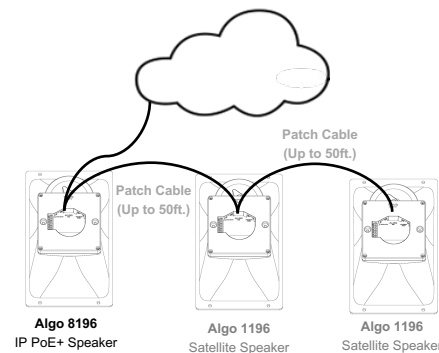- PoE power is shared equally between IP Speaker and connected satellite speakers

Ideal configuration differs by deployment – some examples below

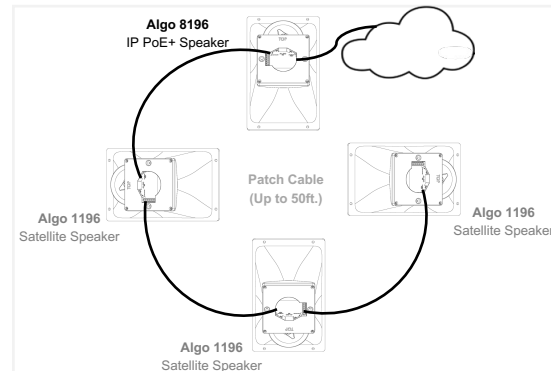| One Satellite Speaker	Two Satellite Speakers	Cluster 3:1 – Three Satellite Speakers	Two IP Speakers, Two Satellite Speakers

- One satellite connected for added speaker coverage, where ambient noise is consistent
- Maximum audio output at 8W each (PoE+)

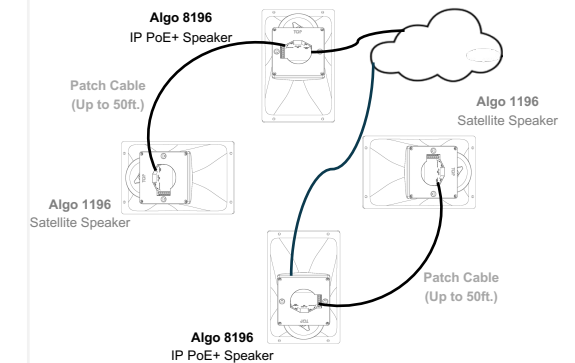- Two satellites connected for added speaker coverage, where ambient noise is consistent
- Maximum audio output at 5.3W each (PoE+)

- Three satellites connected, with one network drop speakers able to reduce costs
- Maximum audio output at 4W each (PoE+)

- Four speakers deployed in a cluster – two IP speakers and two satellite speakers maintain output while managing costs
- Maximum audio output at 4W each (PoE+)

Note: One 8196 and one satellite speaker with PoE+ power provides equivalent power per speaker as two Algo 8186 IP Horn Speakers

When to use all Algo IP Speakers vs Algo Satellite Speakers

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All IP Speakers

Deployment of all **All IP Speakers** is the best option when the following features are important:

- Ability to place SIP call to individual speaker

- Individual speaker talkback and ambient noise detection

- Zoning down to individual speaker

- Maximum power per speaker

IP Plus Satellite Speakers

Deployment of **Satellite Speakers** is the best option when the following features are important:

- Large coverage areas per zone

- Reduced network ports and cable drops

- Maximum audio power per speaker not required

- Supervision capabilities maintained

QUESTIONS & CONTACT INFORMATION

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